

# Workshop Overview

- **Discussion of Charter**
- **Goals of Workshop**
- **Discussion of Workshop Agenda (Logistics)**
- **Structure of Breakout Groups**
- **Introduction of Participants**



# Discussion of Charter

- **ASCEM and NRAP have similar missions:** Enable science-based risk assessment methodologies using best-in-class computational methods to integrate theory, experiments, and observations.
- Both Programs R&D efforts focus is on improving the computational models, quantifying uncertainties and uncovering the most important knowledge gaps.
- The use of higher fidelity, science-based models will build confidence in risk assessments.
- Ideally, a flexible, computational platform linking multiphysics simulation software with modern UQ and decision support tools should be adopted to exploit computer architectures from the desktop to HPC scale.
- Each program has adopted a “common architecture at many sites” paradigm in which standardization of software, methods, and approaches is promoted by developing a community software



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# Goals of Workshop

## ➤ Goals:

- What are the areas of synergy between the programs
- How can these synergies be leveraged to benefit both programs
- Identification of integration areas and collaborative workscope?
- Preparation of recommendations to Undersecretaries Johnson and Koonin



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# Discussion of Workshop Agenda

- The workshop will start with overview presentations from both efforts
- More detailed topical areas discussions in smaller groups (breakout sessions).
- Group discussions
- Breakout leads to summarize and prepare recommendations to be sent to EM-1 and FE-1



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# Structure of Breakout Groups

- Participants assigned to Breakout teams per handout:
  - Participants are not tied to these assignments, but the organizers feel people should start in these breakout groupings
- Each breakout is organized and lead by and senior ASCEM and NRAP lead
- Topics for discussion within each breakout
  - What is each program doing to address the challenges embodied in this breakout topical area?
  - What are the similarities and differences in the requirements of each program for this topical area?
  - What are the initiatives in each program that could be leveraged by the other to maximize efficiencies and promote common practices?



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